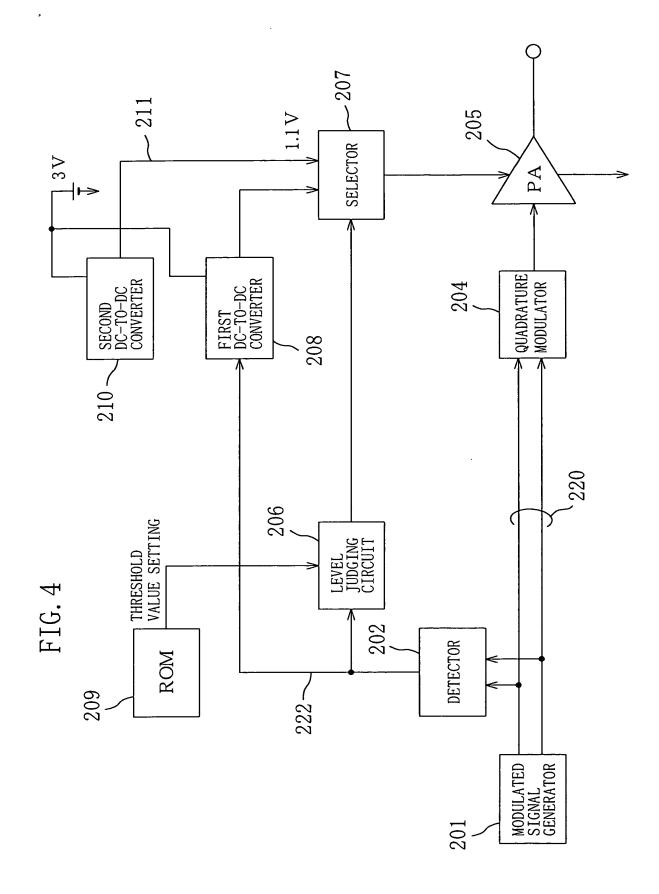
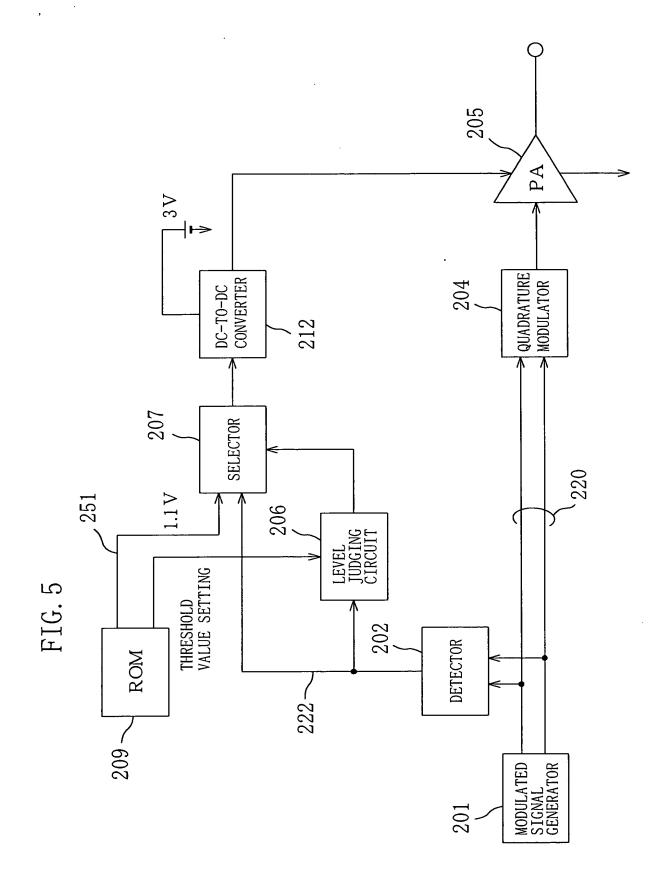
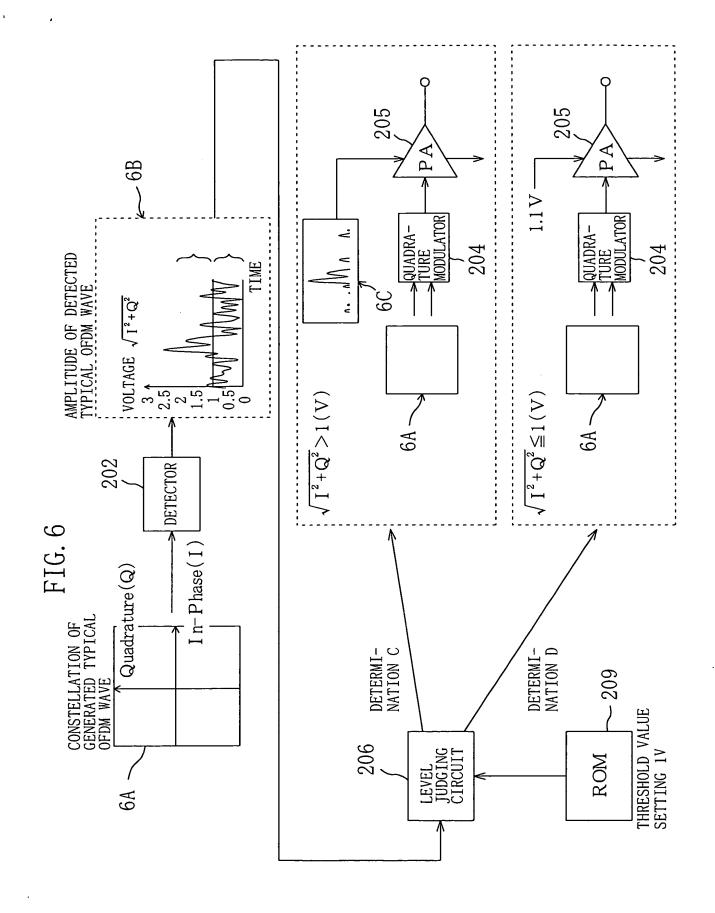


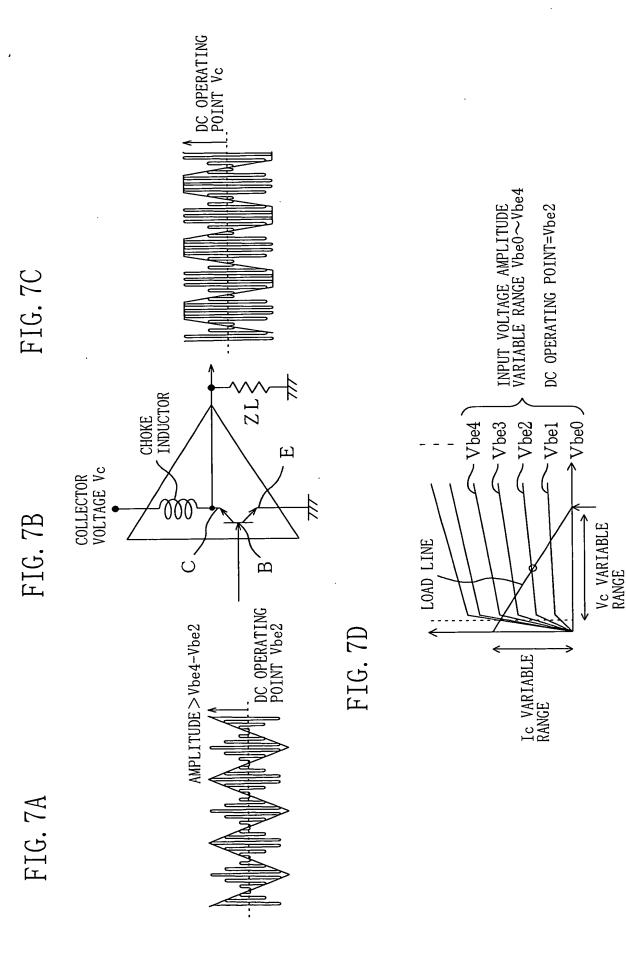
Constant voltage is applied to collector when amplification is in this voltage range.

EER TECHNIQUE









RFout 405 VDD PARFin RF SIGNAL QUADRATURE

MODULATOR DC-TO-DC CONVERTER 404 403 Quadrature In-phase FIG. 8 PRIOR ART 412 PHASE COMPONENT AMPLITUDE COMPONENT DETECTOR 402 MODULATOR

VOLTAGE AMPLITUDE AT RFout TIME PRIOR ART FIG. 9C VOLTAGE 0.5 2.5 1.5 0 1.5 2 2.5 3 VOLTAGE INPUT TO VDD PA RESPONSE CHARACTERISTIC VOLTAGE AMPLITUDE AT RFout PRIOR ART 0 0.5 1 FIG. 9B TIME AMPLITUDE OF VOLTAGE Vin INPUT TO VDD PRIOR ART VOLTAGE Vin FIG. 9A 1.5